



IFW

PATENT  
0510-1144

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicants: HOENNINGER et al. Confirmation: 5404  
Serial No.: 10/586,963 Art Unit: 2828  
Filed: July 25, 2006 Examiner: Not assigned  
For: ULTRA-SHORT LASER SOURCE WITH RARE EARTH  
IONS AND STABLE PULSE TRAIN AND DEVICE  
FOR LENGTHENING A LASER CAVITY

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

November 1, 2006

Sir:

In compliance with Rules 1.97 and 1.98, and in fulfillment of the duty of disclosure under Rule 1.56, included with the attached Form PTO-1449 is a copy of the International Search Report corresponding to the present U.S. National Phase PCT application. Copies of the listed documents are not enclosed as they should have been forwarded by the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO, and JPO.

This Information Disclosure Statement is being filed prior to issuance of an action on the merits; therefore, no fee is required. The Examiner is courteously requested to initial and return a copy of the attached Form PTO-1449 to confirm entry into the record and consideration of the listed documents.

Respectfully submitted,

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# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

 Attorney Docket No.:  
**0510-1144**

 Application No.:  
**10/586,963**

 Applicant:  
**HONNINGER et al.**

 Filing Date:  
**July 25, 2006**

 Group Art Unit:  
**2828**

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation
						Yes No
7AR	WO 02/21643	03-14-2002	WIPO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

- 1/AR/ KOLEV et al., "Passive mode locking of a Nd:YVO4 laser with an extra-long optical resonator," *Optics Letters*, Vol. 28, No. 14, July 15, 2003, pp. 1275-1277.
- PRASANKUMAR et al., "An extended cavity femtosecond Cr:LISAF laser pumped by low cost diode lasers," *Optics Express*, Vol. 11, No. 11, June 2, 2003, pp. 1265-1269.
- AUS DER AU et al., "Femtosecond microjoule pulses with 15.8 W average power from a passively mode-locked diode-pumped Yb:YAG thin-disk laser," *Conference on Lasers and Electro-Optics, Technical Digest*, Vol. 39, May 7, 2000, pp. 82 and 83.
- PAPADOPOULOS et al., "Passively mode-locked diode-pumped Nd:YVO4 oscillator operating at an ultralow repetition rate," *Optics Letters*, Vol. 28, No. 19, October 1, 2003, pp. 1838-1840.
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- BRUNNER et al., "Widely tunable pulse durations from a passively mode-locked thin-disk Yb:YAG laser," *Optics Letters*, Vol. 26, No. 6, March 15, 2001, pp. 379-381.
- HOENNINGER et al., "Q-switching stability limits of continuous-wave passive mode locking," *Journal of the Optical Society of America*, Vol. 16, No. 1, January 1999, pp. 46-56.
- KELLER et al., "Semiconductor Saturable Absorber Mirrors (SESAM's) for Femtosecond to Nanosecond Pulse Generation in Solid-State Lasers," *IEEE Journal of Selected Topics in Quantum Electronics*, Vol. 2, No. 3, September 1, 1996, pp. 435-451.
- SENNAROGLU et al., "Design criteria for Herriott-type multi-pass cavities for ultrashort pulse lasers," *Optics Express*, Vol. 11, No. 9, May 5, 2003, pp. 1106-1113.
- KLOPP et al., "Passively mode-locked Yb:KYW laser pumped by a tapered diode laser," *Optics Express*, Vol. 10, No. 2, January 28, 2002, pp. 108-113.
- AUS DER AU et al., "16.2-W average power from a diode-pumped femtosecond Yb:YAG thin disk laser," *Optics Letters*, Vol. 25, No. 11, June 1, 2000, pp. 859-861.
- 1/AR/ COURJAUD et al., "1.5 W femtosecond diode-pumped Yb:KGW laser," *Advanced Solid-State Lasers Conference*, December 31, 2001, pp. 161-163.

 EXAMINER:  
 /Armando Rodriguez/

 DATE CONSIDERED  
 06/22/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

BC:rk

Y&amp;T November 1, 2006